Annual Environmental Report

2020



Mooncoin

D0145-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER

This Annual Environmental Report has been prepared for D0145-01, Mooncoin, in Kilkenny in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

N/A

1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

• Mooncoin WWTP - 2020 with a Plant Capacity PE of 2800, the treatment type is 2 - Secondary treatment

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF1500D0145SW001	Mooncoin WWTP - 2020	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 MOONCOIN WWTP - 2020 - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - MOONCOIN WWTP - 2020

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
COD-Cr mg/I	12	890	372.5
BOD, 5 days with Inhibition (Carbonaceo mg/l	12	264	128.65
Total Phosphorus (as P) mg/l	12	10.2	4.9
Total Nitrogen mg/l	12	63.4	36.15
Suspended Solids mg/l	12	868	197.35
Hydraulic Capacity	N/A	2599	436

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF1500D0145SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	12	N/A	N/A	31.66	Pass
Suspended Solids mg/l	35	87.5	N/A	12	1	N/A	11.78	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/I	25	50	N/A	12	N/A	N/A	6.17	Pass
Total Oxidised Nitrogen (as N) mg/l	15	18	N/A	12	N/A	N/A	4.3	Pass
Ammonia-Total (as N) mg/l	10	12	N/A	12	N/A	N/A	0.07	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.41	Pass
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	1.64	
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	5.5	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
ortho- Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	12	N/A	N/A	1.4	

Notes:

Cause of Exceedance(s):

Not applicable

Significance of Results:

The WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1500D0145SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Upstream	248789, 115586	TW31002103SR5003	No	No	No	No	Poor

^{1 -} This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Downstream	251740, 112535	TW31002103SR5005	No	No	No	No	Poor

The results for ambient results and / or additional monitoring data sets are included in the **Appendix 7.1 - Ambient monitoring summary**

Significance of Results:

The WWTP discharge was compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - MOONCOIN WWTP - 2020

2.1.4.1 Treatment Efficiency Report - Mooncoin WWTP - 2020

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Efficiency (% reduction of influent load)	
ss	32318	1230	96
cBOD	21069	644	97
TP	802	171	79

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)		
TN	5921	574	90		
COD	61002	3304	95		

Note: The above data is based on sample results for the number of dates reported

2.1.4.2 Treatment Capacity Report Summary - Mooncoin WWTP - 2020

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Mooncoin WWTP - 2020					
Peak Hydraulic Capacity (m³/day) - As Constructed					
DWF to the Treatment Plant (m³/day)					
Current Hydraulic Loading - annual max (m³/day)					
Average Hydraulic loading to the Treatment Plant (m³/day)					
Organic Capacity (PE) - As Constructed					
Organic Capacity (PE) - Collected Load (peak week)Note1					
Organic Capacity (PE) - Remaining					
Will the capacity be exceeded in the next three years? (Yes/No)	No				

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.1.5 SLUDGE / OTHER INPUTS - MOONCOIN WWTP - 2020

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)		
There is no Sludge and Other Input data for the Treatment Plant included in the AER.									

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environm	ental complaints in 2020.		

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

Incident Type Cause		No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)	
Abatement Equipment offline	Adverse Weather	1	No	Yes	

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2020	1
Number of Incidents reported to the EPA via EDEN in 2020	1
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2020 (No. of events)	Total volume discharged in 2020 (m3)	Monitoring Status
SWO02	250766,116412	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	N/A
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	N/A

4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments					
There are no Specified Improvement Programmes for this Agglomeration.												

A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improven	nents Programme for this Agglomeration.			

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes	2015	No	

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2015

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	No

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed: Date: 24/03/2021

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

WaterborkName	Waterbork/Code	Waterbardstone	MonitoringStationCode	Monitoring StationName	MonitoringStationType	MonitorineStationLocalAuthority	Sample ofe	SamoleDate	SampleMethod	DarameterNama	Danamateri Init/DyortCode	Parameteri InitName	Dennit Tayt Dennit	Semil/String	LimitOfDatection	SeportSendt SeportTestSendt	DeportSeru/PStrine	Reporti imit
Mile Suir Estuary	IF SE 100 0550	Transitional	TW31002103585003	SSTAR - Suir Estuary at Bellenna Duny	Draftiff	Waterford City & County Council	20,10646	08/07/202	TRaC Danith Composite	Ammonia, Total (as N)	mr/l	milierama ner litre	0.043	UK.	0.01	0.041	OX	0.01
66la Suir Estuary	IF SE 100 0550	Transitional	TW31002103505003	SS140 - Suir Estuary at Politona Curry	Drafafid	Waterford City & County Council	20-10646	08/07/202	TRaC Depth Composite	Chicoshuli	Augh	Mirrogrammen per libra	35	OK	0.02	35	OK	0.01
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Politone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Dissolved Oxygen	% Saturation	Percentage Saturation	97	OK	- 1	97	OK	_
66la Suir Estuary	IF SE 100 0550	Transitional	TW31002103595003	SR340 - Suir Estuary at Politone Quay	Pre/Mfd	Waterford City & County Council	20-10646	08/07/2020	TRuC Denth Composite	ortho Phoughate (as P) - unaperified	med	milierams per litre	0.019	OK	0.005	0.019	OK	0.005
Mile Suir Enhancy	IF SE 100 0550	Transitional	TW31002103595003	SR340 - Suir Estuary at Politone Quay	Pre/Mfd	Waterford City & County Council	20,10646	08/07/2020	TRuC Denth Composite	Salinhy	PSII	Practical salinity units	0.1	OK	0.1	0.1	OK	0.1
66la Suir Estuary	IF SE 100 0550	Transitional	TW31002103595003	SR340 - Suir Estuary at Politone Quay	Pre/Mfd	Waterford City & County Council	20,10646	08/07/2020	TRuC Denth Composite	BOD - 5 days (Total)	med	millerama ner litre	1.7	OK	1	1.7	OK	
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Politone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Stica (as SIQ2)	me/l	milierams per litre	0.56	OK	0.1	0.56	OK	0.7
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	StationDepth	m	Metres	2.5	OK.	0.1	2.5	OK	0.7
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Temperature	A'C	Degrees centrigrade	16.6	OK.		16.6	OK	
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Depth	m	Metres	0.2	OK.		0.2	OK	
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Salinity(Lab)	Q/op	0/00	0.2	OK.	0.1	0.2	OK	0.7
ddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Total Oxidised Nitropen (as N)	mr/l	milierams per litre	2.1	OK.	0.01	2.1	OK	0.01
iddle Suir Extuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	Transparency	m	Metres	0.4	OK.		0.4	OK	
iddle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Polirone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	pH	pH units	pH Units	8.3	OK	2	8.3	OK	1 .
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5003	SR340 - Suir Estuary at Policone Quay	PreWfd	Waterford City & County Council	20-10646	08/07/2020	TRaC Depth Composite	TOC (as NPOC)	mr/l	milierams per litre	6.1	OK.	2	6.1	OK	7
ownstream Mooncoin	WWTP 00145-01	Waterbodstone	MonitorineStationCode	MonitorineStationName	MonitoringStationType	MonitorineStationLocalAuthority	Sample of a	SamoleDate	Samolablathod	DaramaterName	Danamatari initShortCoda	Dar amateri initName	Denick TardSenick	San Official	LimitOfDatection	Sanort Sandt Sanort Teat Sandt	DeportSess/PString	Deport imit
Addle Suir Estuary	E SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	Draftiff	Waterford City & County Council	20-10645	08/07/202	TRaC Sottom	Ammonia-Total (as N)	mg/l	millerams per litre	0.027	Or	0.01	0.027	OV.	0.0
Atla Suir Estuary	IF SE 100 0550	Transitional	TW31002103505005	COTON - Cuir Entury at Suir Lodge	Drafafid	Waterford City & County Council	20-10644	08/07/202	TRaC Surface	Chicoshuli	Augh	Mirrogrammen per libra	36	OK	0.02	2007	OK	
iddle Suir Estuary	IF SE 100 0550	Transitional	TW31002103505005	SR350 - Suir Estuary at Suir Lodge	Drafafid	Waterford City & County Council	20-10645	08/07/202	TRuC Sottom	Dunth	m.	Metres	50	OK		5.9	OK	+
iddle Suir Estuary	IF SE 100 0550	Transitional	TW31002103595005	SR350 - Suir Estuary at Suir Lodee	Pre/Mfd	Waterford City & County Council	20,10644	08/07/2020	TRaC Surface	Dissolved Overson	% Saturation	Percentage Saturation	92	OK	- 1	92	OK	
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Sottom	ortho-Phosphate (as P) - unspecified	meA	milierams per litre	0.026	OK	0.005	0.028	OK	0.00
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodee	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Ammonia-Total (as N)	me/l	milierams per litre	0.031	OK	0.01	0.031	OK	0.0
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Sottom	PHO	old units	oH Units	8.3	OK.	2	8.3	OK	
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Salinity	PSU	Practical salinity units	0.8	OK.	0.1	0.8	OK	0.
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Sottom	Silica (as SiO2)	mr/l	milierams per litre	0.5	OK.	0.1	0.5	OK	0.
iddle Suir Estuary	IE SE 100 0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Silica (as SiO2)	mr/l	milierams per litre	0.49	OK.	0.1	0.49	OK	0.
iddle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	StationDepth	m	Metres	6	OK	0.1	6	OK	0.
fiddle Suir Estuary	15_55_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	06/07/2020	TRaC Sottom	Temperature	A*c	Degrees centrigrade	16.5	OK		16.5	OK	
fiddle Suir Estuary	15_55_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	06/07/2020	TRaC Surface	Temperature	A*c	Degrees centrigrade	16.6	OK		16.6	OK	
fiddle Suir Estuary	15_55_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	06/07/2020	TRaC Surface	Depth	m	Metres	0.2	OK		0.2	OK	
fiddle Suir Estuary	15_55_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	06/07/2020	TRaC Sottom	Total Oxidised Nitrogen (as N)	mg/l	miligrams per litre	2	OK	0.01	2	OK	0.01
fiddle Suir Estuary	15_55_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	06/07/2020	TRaC Sottom	Dissolved Oxygen	% Saturation	Percentage Saturation	90	OK	- 1	90	OK	
Addle Suir Estuary	If_St_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Bottom	Transparency	m	Metres	0.4	OK		0.4	OK	
liddle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	ortho-Phosphate (as P) - unspecified	mg/l	miligrams per litre	0.021	OK	0.005	0.021	OK	0.000
liddle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Sottom	Salinity	PSU	Practical salinity units	<0.1	OK	0.1	0.05 < 0.1	OK	0.1
	If_St_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Salinity(Lab)	0/00	0/00	0.8	OK	0.1	0.8	OK	0.1
		Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodne	PreWid	Waterford City & County Council	20-10645	08/07/2020	TRaC Bottom	Salinity(Lab)	0/00	0/00	0.8	OK	0.1	0.8	OK	0.1
iddle Suir Estuary	IE_SE_100_0550																	
ddle Suir Estuary ddle Suir Estuary	IE_SE_100_0550	Transitional	TW310021035R5005	SR350 - Suir Estuary at Suir Lodge	PreWfd	Waterford City & County Council	20-10645	08/07/2020	TRaC Sottom	StationDepth	m		6	OK	0.1	6	OK	
iddle Suir Estuary iddle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Total Oxidised Nitrogen (as N)	m mg/l	miligrams per litre	2.1	OK OK	0.1	6 2.1	OK OK	
iddle Suir Estuary iddle Suir Estuary iddle Suir Estuary iddle Suir Estuary	IE SE 100 0550 IE SE 100 0550 IE SE 100 0550	Transitional	TW310021035R5005 TW310021035R5005 TW310021035R5005	SRISO - Suir Estuary at Suir Lodge SRISO - Suir Estuary at Suir Lodge SRISO - Suir Estuary at Suir Lodge	PreWfd PreWfd PreWfd	Waterford City & County Council Waterford City & County Council	20-10644 20-10645	08/07/2020 08/07/2020	TRaC Surface TRaC Sottom		Aug/I	miligrams per litre Microgrammes per Litre	2.1 32	OK OK		5 2.1 32	OK OK	
Iddle Suir Estuary	IE_SE_100_0550	Transitional Transitional	TW310021035R5005 TW310021035R5005	SR350 - Suir Estuary at Suir Lodge SR350 - Suir Estuary at Suir Lodge	PreWfd PreWfd	Waterford City & County Council	20-10644	08/07/2020	TRaC Surface	Total Oxidised Nitrogen (as N)		miligrams per litre	2.1 32 8.3	OK		2.1 22 8.3	OK OK OK	0.1 0.01 1